

**RB34**  
**University of Maryland Center for Environmental Science**  
**University System of Maryland**

***Capital Budget Summary***

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**Summary of State-owned Projects Funded in Governor's Request**  
**(\$ in Millions)**

<i>Project Title</i>	<i>Prior Approp.</i>	<i>FY 2014 Request</i>	<i>Future Estimated</i>	<i>Estimated Total</i>	<i>DLS FY 2014 Recommd.</i>
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New Environmental Sustainability Research Laboratory	\$1.150	\$2.350	\$11.900	\$15.400	\$2.350
<b>Total</b>	<b>\$1.150</b>	<b>\$2.350</b>	<b>\$11.900</b>	<b>\$15.400</b>	<b>\$2.350</b>

<i>Fund Source</i>	<i>Prior Approp.</i>	<i>FY 2014 Request</i>	<i>Future Estimated</i>	<i>Estimated Total</i>	<i>DLS FY 2014 Recommd.</i>
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GO Bonds	\$1.150	\$2.350	11.900	\$15.400	\$2.350
<b>Total</b>	<b>\$1.150</b>	<b>\$2.350</b>	<b>\$11.900</b>	<b>\$15.400</b>	<b>\$2.350</b>

***Summary of Recommended Bond Actions***

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1. New Environmental Sustainability Research Laboratory

Approve.

2. University of Maryland Center for Environmental Science New Environmental Sustainability Research Laboratory

Approve a technical change to prior authorization.

## ***Capital Improvement Program***

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### **State-owned Capital Improvement Program (\$ in Millions)**

<b><i>Projects</i></b>	<b><i>Prior Auth.</i></b>	<b><i>2014 Request</i></b>	<b><i>2015 Est.</i></b>	<b><i>2016 Est.</i></b>	<b><i>2017 Est.</i></b>	<b><i>2018 Est.</i></b>	<b><i>Beyond CIP</i></b>
New Environmental Sustainability Research Laboratory	\$1.150	\$2.350	\$10.050	\$0.850	\$0.000	\$0.000	\$0.000
New Information and Communications Services Building	0.000	0.000	0.000	0.950	5.450	6.800	0.000
<b>Total</b>	<b>\$1.150</b>	<b>\$2.350</b>	<b>\$10.050</b>	<b>\$1.800</b>	<b>\$5.450</b>	<b>\$6.800</b>	<b>\$0.000</b>

<b><i>Fund Source</i></b>	<b><i>Prior Auth.</i></b>	<b><i>2014 Request</i></b>	<b><i>2015 Est.</i></b>	<b><i>2016 Est.</i></b>	<b><i>2017 Est.</i></b>	<b><i>2018 Est.</i></b>	<b><i>Beyond CIP</i></b>
GO Bonds	\$1.150	\$2.350	\$10.050	\$1.800	\$5.450	\$6.800	\$0.000
<b>Total</b>	<b>\$1.150</b>	<b>\$2.350</b>	<b>\$10.050</b>	<b>\$1.800</b>	<b>\$5.450</b>	<b>\$6.800</b>	<b>\$0.000</b>

## ***Budget Overview***

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### **New Environmental Sustainability Research Laboratory**

This project will replace the R.V. Truitt Laboratory, located at the Chesapeake Biological Laboratory (CBL) in Solomons that was constructed in 1973 and closed in March 2008 due to multiple structural and mechanical issues. Initial design funding for the new lab was provided in the fiscal 2013 capital budget. At the time, the 2012 session *Capital Improvement Program* (CIP) scheduled construction split between fiscal 2015 and 2016, which left a year of inactivity between the end of the design phase and the commencement of construction. The proposed fiscal 2014 funding alters the timing to better align the design and construction phases by accelerating a portion of the construction phase into fiscal 2014. Furthermore, the 2013 CIP programs construction over fiscal 2014 and 2015, thereby accelerating the delivery of the project relative to the 2012 CIP plan. In addition to an accelerated project schedule, the project scope was revised to increase the size of the new lab from 14,828 to 19,000 gross square feet. This increased scope in part explains the \$755,000 increased total project cost relative to last session's estimate.

While Truitt Laboratory was intended to be a running seawater facility, the design did not fully take into account the corrosive nature of seawater flowing throughout the facility, leading to the deterioration of the building, which became unusable. Leaking seawater corroded many of the valves on the water lines and the electrical panel resulting in not being able to open the emergency panel. Structural and mechanical system issues with Truitt Laboratory included the inability of the heating, ventilation, and air conditioning system to reduce the high levels of humidity produced by the seawater, resulting in the growth of mold and mildew. This contributed to the loss of research and health problems among personnel. The presence of the mold and mildew caused the university's Institutional Animal Care and Use Committee to cite CBL on several occasions for deficiencies in vertebrate care, and in February 2008, required the removal of all vertebrates to other buildings on campus facilities.

The closure of Truitt Laboratory impacted CBL's capability and capacity to conduct research. Truitt Laboratory housed 21% of CBL's research space and provided 45% of the space capable of handling salt water research. Researchers were reassigned to one of three facilities in which personnel share space and equipment in laboratories, and an educational laboratory used by undergraduate and graduate students was converted into research space. Since all space at CBL is fully allocated, it limits the ability to pursue research opportunities and attract new faculty and graduate students.

The project will construct 11,580 net assignable square feet (NASF) research facility that will be designed to take into account the corrosive nature of seawater. The advent of new materials and technologies will greatly enhance the ability of the building systems to withstand the constant flow of seawater. It will provide the necessary laboratories, offices, and modular wet laboratories needed to expand research in areas such as landscape and watershed ecology and conservation biology and restoration ecology. The University of Maryland Center for Environmental Sciences estimates with the construction of the facility, it will be able to bring in annually approximately \$2 million in additional research funding.

## ***Operating Budget Impact Statement***

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### **Executive's Operating Budget Impact Statement (\$ in Millions)**

		<i>FY 2014</i>	<i>FY 2015</i>	<i>FY 2016</i>	<i>FY 2017</i>	<i>FY 2018</i>
<b>New Environmental Sustainability Research Laboratory</b>						
	Estimated Operating Cost	0.000	0.000	0.278	0.341	0.350
	Estimated Staffing	0	0	1	1	1

## **Summary of Other Projects in the Capital Improvement Program**

The 2013 CIP programs \$1.0 million for planning the New Information and Communications Services Building in fiscal 2016 and construction funding totaling \$10.6 million in fiscal 2017 and 2018. The facility will provide a 8,720 NASF library at CBL and include study and stack space, offices, and a computer center. The current library is not Americans with Disabilities Act compliant and lacks sufficient space to house CBL's growing library collection. The Information Technology Department is located in the basement of Nice Hall, an historic building that cannot handle the information technology needs of CBL and routinely floods during rain events. The project will relocate these units to a facility that can accommodate their needs.

## ***GO Bond Recommended Actions***

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1. Approve \$2.4 million to relocate utilities and demolish the Truitt Laboratory building in preparation to construct the New Environmental Sustainability Research Laboratory.
2. Approve a technical change.